

miniBATTEN

TE-X24RGB

USER MANUAL

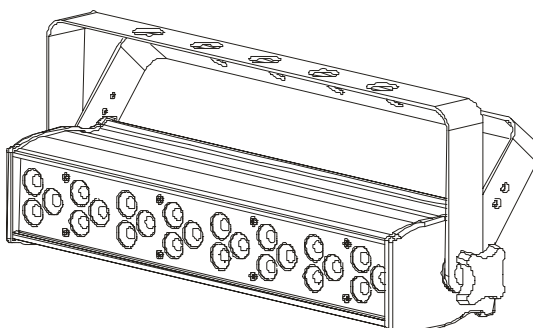


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1 PRODUCT (GENERAL)

1.1 PRODUCT INTRODUCTION

This product is designed for indoor use. Suitable applications include wash or effect lighting for stage or nightclub applications. This product can also be installed for use in signage and advertising using the dynamic functions available with DMX512 control. Direct input of DMX512 signal allows the units to be controlled from any DMX512 controller. This product can be operated as a single unit or in multiple units for large applications.

The specially developed controller that allows the product to be controlled independent of the DMX512 controller enables the user to create and edit a wide range of custom programs. All programs can be touch-button displayed or scheduled to START and END at scheduled times. When programs have been created or edited in the controller, it is also possible to trigger these programs using the DMX IN function when connected to a DMX512 controller.

1.2 PRODUCT FEATURES

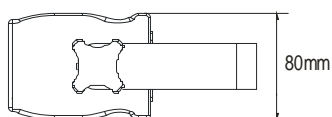
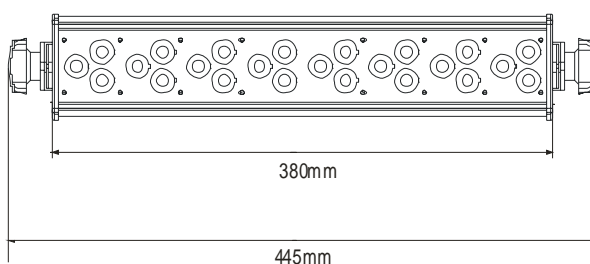
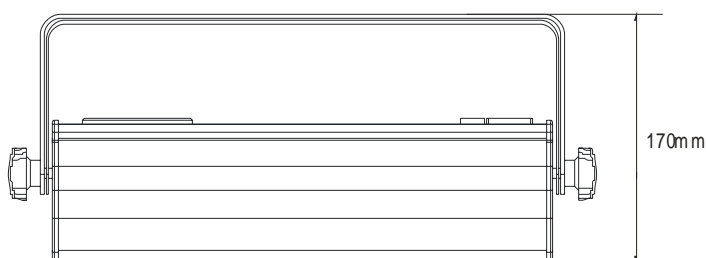
LED FIXTURE

- * RGB Dimmer 0-100%
- * Strobe
- * Automatic programs
- * LCD display
- * Display control 'lock-out'
- * Direct DMX512 input
- * Independent ID address
- * Stand-alone/ Slave
- * 'Over-heat' protection
- * Fan speed control

1.3 TECHNICAL SPECIFICATIONS

LED MODULE

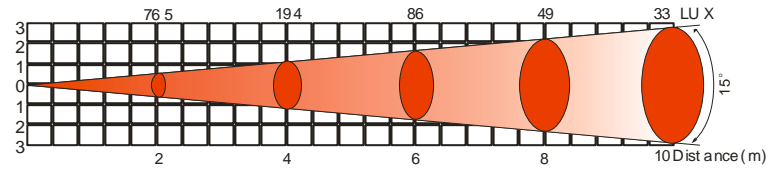
LED MODULE:	
Voltage	AC 100~ 240V...50/60Hz
Rated Power	45W
LED/Unit	24pcs (8 x RED / 8 x GREEN / 8 x BLUE)
Output/LED	1W
Environment Temperature	-20°C~40°C
Cooling	Forced air convection
Dimensions	450 x 190 x 80mm
Weight	3.5Kg



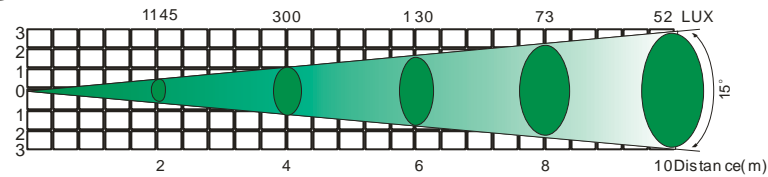
1.4 PHOTOMETRIC DATA

PHOTOMETRIC DATA

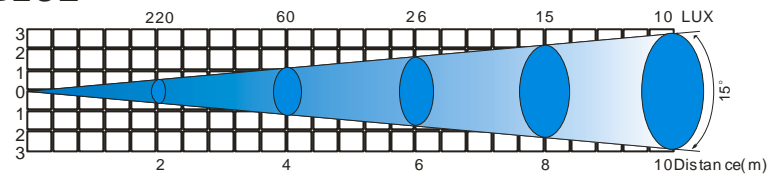
RED



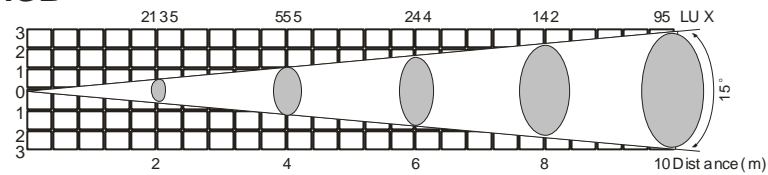
GREEN



BLUE



RGB



1.5 SAFETY WARNING

IMPORTANT

**【ALWAYS READ THE USER MANUAL BEFORE OPERATION. 】
【PLEASE CONFIRM THAT THE POWER SUPPLY STATED ON THE
PRODUCT IS THE SAME AS THE MAINS POWER SUPPLY IN YOUR
AREA.】**

- This product must be installed by a qualified professional.
- Always operate the equipment as described in the user manual.
- A minimum distance of 0.5m must be maintained between the equipment and combustible surface.
- The product must always be placed in a well ventilated area.
- Always make sure that the equipment is installed securely.
- DO NOT stand close to the equipment and stare directly into the LED light source.
- Always disconnect the power supply before attempting any maintenance.
- Always make sure that the supporting structure is solid and can support the combined weight of the products.
- The earth wire must always be connected to the ground.
- Do not touch the power cables if your hands are wet.

ATTENTION



- This product left the place of manufacture in perfect condition. In order to maintain this condition and for safe operation, the user must always follow the instructions and safety warnings described in this user manual.
- Avoid shaking or strong impacts to any part of the equipment.
- Make sure that all parts of the equipment are kept clean and free of dust.
- Always make sure that the power connections are connected correctly and secure.
- If there is any malfunction of the equipment, contact your distributor immediately.
- When transferring the product, it is advisable to use the original packaging in which the product left the factory.
- Shields, lenses or ultraviolet screens shall be changed if they have become damaged to such an extent that their effectiveness is impaired.
- The lamp (LED) shall be changed if it has become damaged or thermally deformed.

2 INSTALLATION

2.1 MOUNTING

HANGING

The LED mini BATTEN can be mounted in a hanging position using the supporting bracket. The bracket should be secured to the mounting truss or structure using a standard mounting clamp. Please note that when hanging the unit a safety cable should also be used.

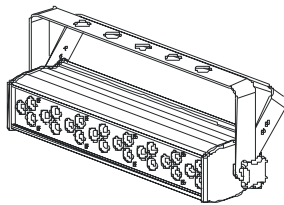


Fig 1

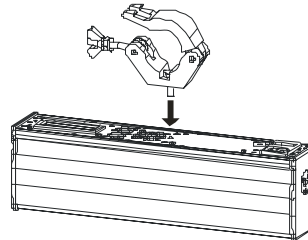


Fig 2

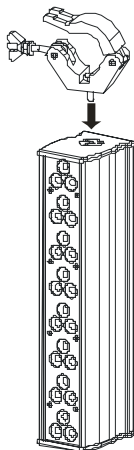


Fig 3

UPLIGHT

The LED mini BATTEN can be mounted in an upright or sitting position using the supporting brackets.

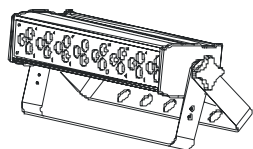


Fig 6

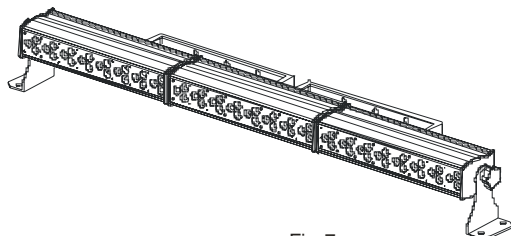


Fig 7

2.2 POWER CONNECTIONS

@ 220V: 20 units may be connected in series

@ 120V : 10 units may be connected in series

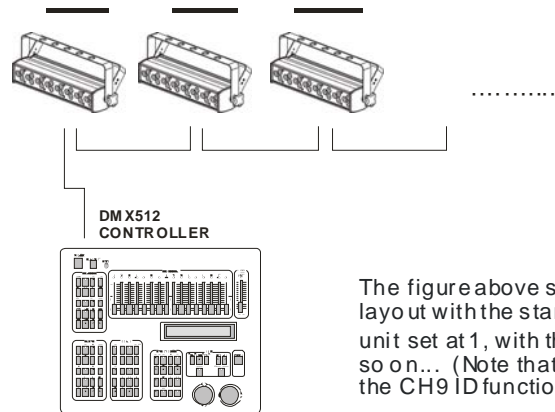
Note: As this fixture's DMX signal cable connection had been changed to Parallel connection, so if over 30 units to be connected, then a DMX signal amplifier is needed.

2.3 SETTING UP WITH A DMX512 CONTROLLER

2.3-1 DMX512 ADDRESSING WITHOUT ID ADDRESSING (STAGE 1 MODE)

- Connect the DMX512 controller to the units in series.
- Each unit has 10 DMX channels so the DMX Addresses should increase by increments of 10 (e.g. 1, 11, 21, 31...)
- The ID address has not been set so therefore when using the controller Ch9 must be inactive (CH9=0).
- Each DMX Address may be used as many times as required.
- Any DMX address in the range from 001 to 512 may be used.

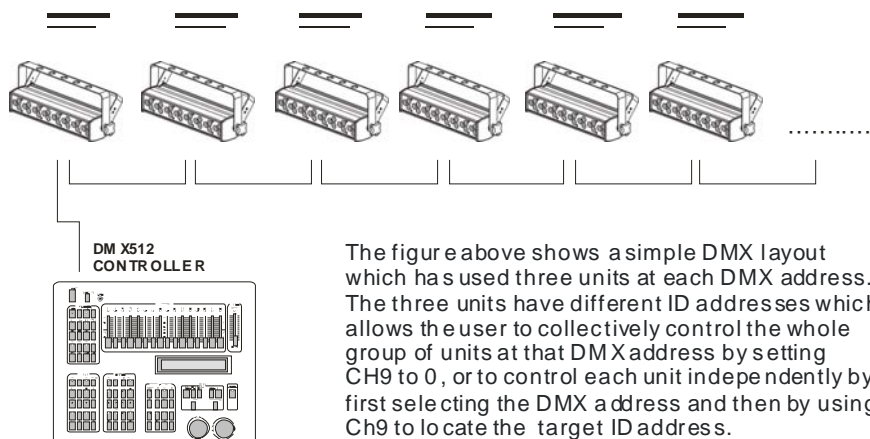
Example:



The figure above shows a simple DMX512 layout with the starting address of the first unit set at 1, with the second set at 11 and so on... (Note that when used in this way, the CH9 ID function must be inactive (CH9=0))

2.3-2 DMX512 ADDRESSING WITH ID ADDRESS (STAGE 1 MODE)

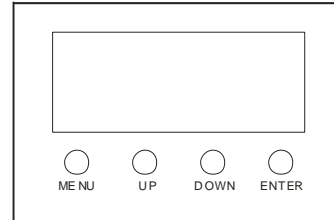
- Connect the DMX512 controller to the units in series
- Each unit has 10 DMX channels so the DMX Addresses should increase by increments of 10 (e.g. 1, 11, 21, 31...)
- Each DMX Address may be used as many times as required.
- Any DMX address in the range from 001 to 512 may be used.
- Each DMX address may carry up to 66 separate ID addresses.
- **【ID】** should be set in the menu on each unit in ascending values (i.e. 1, 2, 3...)
- ID addresses are accessible from Ch 9 on the DMX512 controller.

Example:

The figure above shows a simple DMX layout which has used three units at each DMX address. The three units have different ID addresses which allows the user to collectively control the whole group of units at that DMX address by setting CH9 to 0, or to control each unit independently by first selecting the DMX address and then by using Ch9 to locate the target ID address.

3 DISPLAY PANEL OPERATION

3.1 BASIC



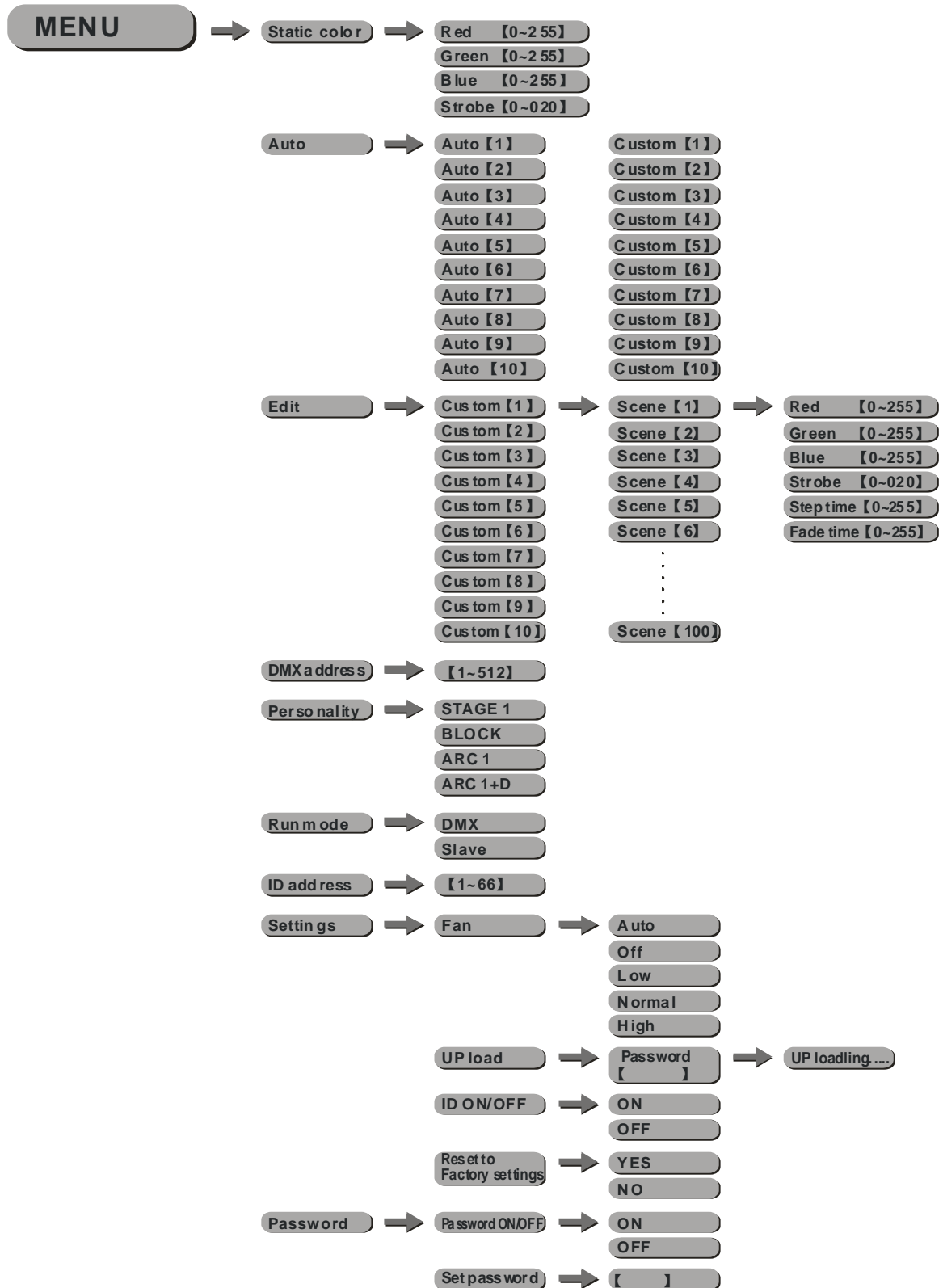
【 **MENU** 】 scroll through the main menu or exit from the current menu or function

【 **UP** 】 scroll 'UP' through the menu list or increase the value of the current function

【 **DOWN** 】 scroll 'DOWN' through the menu list or decrease the value of the current function

【 **ENTER** 】 Enter the currently selected menu or confirm the current function value

3.2 MENU



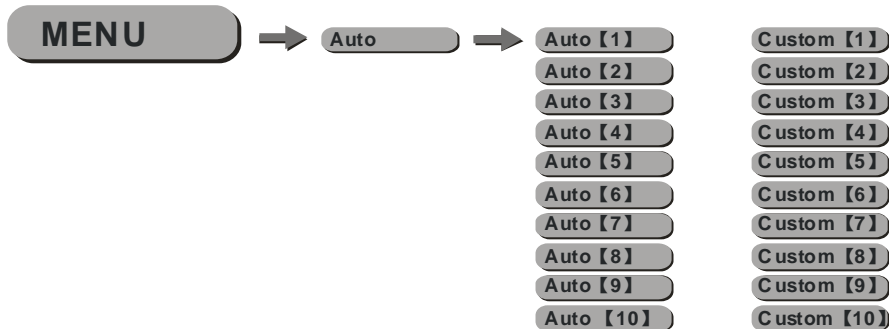
3.3 Static color



【 Static color】

- Select **【Red】** / **【Green】** / **【Blue】** / **【Strobe】** and set the value by pressing **【UP】** and **【DOWN】**
- Press **【ENTER】** to save and back to the upper menu
- The fixture will be automatic in Master running mode under this function

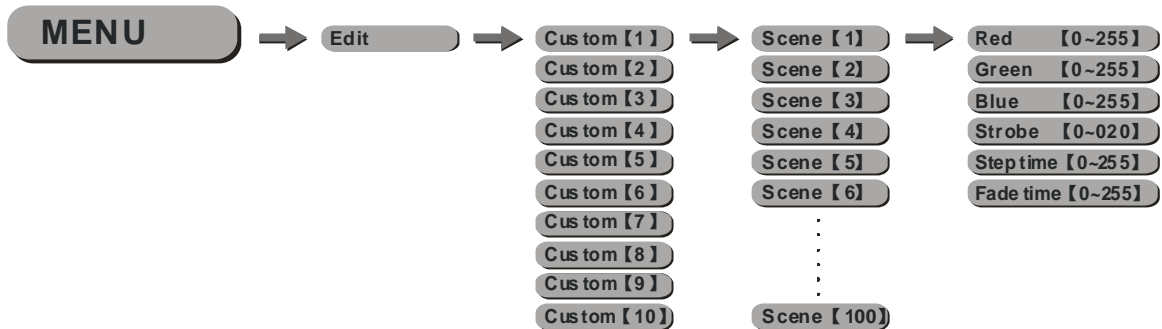
3.4 Auto



【 AUTO】

- Select the target **【AUTO】** program and press **【SET】**
- Programs **【Auto 01】** to **【Auto 10】** are fully pre-programmed and will not be altered
- Programs **【Custom 01】** to **【Custom 10】** are fully pre-programmed and can be edited in **【Edit】** mode
- The fixture will be automatic in Master running mode under this function

3.5 Edit



【 Edit】

Enter **【Edit】** to edit the custom programs **【 Custom 1】** to **【 Custom 10】**

Each program has 100 steps to edit

Each step allows a creation of a scene using Red, Green, Blue, Strobe, Step time, Fade time

NOTE:

- The unit of **【Step time】** is 0.1s for the range 0-10 and 1 sec for the range 11-255
- The unit of **【Fade time】** is 1 second and can be adjusted from 0 to 255

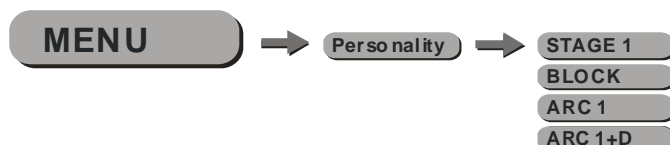
3.6 DMX address



【DMX address】

- Enter **【DMX address】** and set the DMX address **【1~512】**
- Press **【ENTER】** save the setting.

3.7 Personality



【Personality】

- Enter **【Personality】** and select **【STAGE1】** / **【BLOCK】** / **【ARC1】** / **【ARC1+D】** DMX mode

3.8 Run mode



【Run mode】

Enter the **【MODE】** mode to set working mode.

【DMX】 mode is for using the DMX512 controller to control the fixtures.

【Slave】 mode is for Master - Slave operation.

Note: When fixtures are under Auto program operation, the **【MODE】** no works.

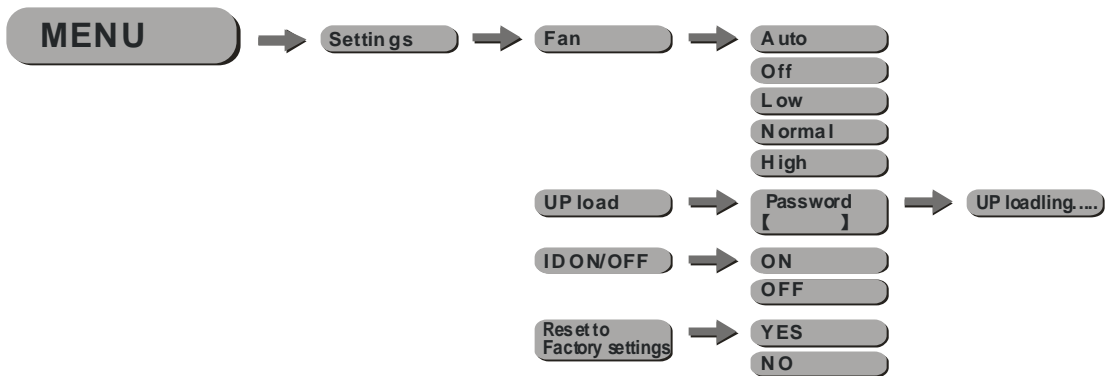
3.9 ID address



【ID address】

Enter **【ID address】** and set the ID address **【1~066】**

3.10 Settings



【 Fan】

Enter **【Fan】** and select the working mode of fan: **【Auto】** , **【Off】** , **【Low】** , **【Normal】** or **【High】**

【 UP load】

Select **【UP load】** to upload the custom programs from the current MASTER unit to the SLAVE units.

In order to activate the upload function the password must be entered

Password is the same as the main access password

When uploading the MASTER and SLAVE units will display YELLOW

If an error occurs when uploading the MASTER and/or SLAVE units will display RED

On successful uploading of the custom programs the MASTER and SLAVE units will display GREEN.

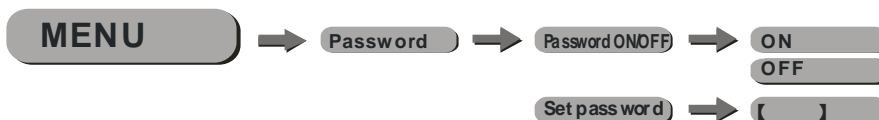
【 ID ON/OFF】

Choose **【ON】** / **【OFF】** to open or close ID

【 Reset to Factory settings】

This function will reset all setting to the original factory setting

3.11 Password



【 Password】

Enter the **【 Password ON/OFF】** mode to set password ON/OFF

When password is activated, display will demand password each time the fixture is powered on.

Enter the **【 Set password】** menu to change password.

Set new password using the **【UP】** & **【DOWN】** keys.

Input an 8 digit password and then press **【ENTER】** to confirm

NOTE: In the event that the password is forgotten. Please use the permanent factory password shown below.

【UP】 > 【UP】 > 【DOWN】 > 【UP】 > 【DOWN】 > 【UP】 > 【DOWN】 > 【DOWN】

4 USING A DMX512 CONTROLLER

4.1 BASIC ADDRESSING

- Connect all of the units in series using standard DMX512 signal cable or the IP65 rated cable provided.
- Set the DMX512 address in the **【DMX】** menu.
- It is possible to have the same DMX address or independent addresses for each fixture.

4.2 CHANNEL ASSIGNMENT

- Note: This product has three DMX512 channel configurations: **【STAGE 1】**, **【BLOCK】**, **【ARC 1】** and **【ARC 1+D】**

STAGE 1

CHANNEL	VALUE	FUNCTION
1		DIMMER
	0 ⇄ 255	
2		RED
	0 ⇄ 255	
3		GREEN
	0 ⇄ 255	
4		BLUE
	0 ⇄ 255	
5		MAR CO
	0 ⇄ 10	No function
	11 ⇄ 35	RED 100% / GREEN UP / BLUE 0%
	36 ⇄ 60	RED DOWN / GREEN 100% / BLUE 0%
	61 ⇄ 85	RED 0% / GREEN 100% / BLUE UP
	86 ⇄ 110	RED 0% / GREEN DOWN / BLUE 100%
	111 ⇄ 135	RED UP / GREEN 0% / BLUE 100%
	136 ⇄ 160	RED 100% / GREEN 0% / BLUE DOWN
	161 ⇄ 185	RED 100% / GREEN UP / BLUE UP
	186 ⇄ 210	RED DOWN / GREEN DOWN / BLUE 100%
	211 ⇄ 215	WHITE 1: 3200K
	216 ⇄ 220	WHITE 2: 3400K
	221 ⇄ 225	WHITE 3: 4200K
	226 ⇄ 230	WHITE 4: 4900K
	231 ⇄ 235	WHITE 5: 5600K
	236 ⇄ 240	WHITE 6: 5900K
	241 ⇄ 245	WHITE 7: 6500K
	246 ⇄ 250	WHITE 8: 7200K
	251 ⇄ 255	WHITE 9: 8500K
6		STROBE
	0 ⇄ 4	No function
	5 ⇄ 255	Strobe speed

CHANNEL	VALUE	FUNCTION
7		Fans, Auto
	0 ⇔ 10	Reset to display Fan setting
	11 ⇔ 20	Fan closed(activated after 3 seconds)
	21 ⇔ 30	Fan normal(activated after 3 seconds)
	31 ⇔ 40	Fan high speed(activated after 3 seconds)
	41 ⇔ 60	Fan auto speed(activated after 3 seconds)
	61 ⇔ 70	Auto 1
	71 ⇔ 80	Auto 2
	81 ⇔ 90	Auto 3
	91 ⇔ 100	Auto 4
	101 ⇔ 110	Auto 5
	111 ⇔ 120	Auto 6
	121 ⇔ 130	Auto 7
	131 ⇔ 140	Auto 8
	141 ⇔ 150	Auto 9
	151 ⇔ 160	Auto 10
	161 ⇔ 170	Custom 1
	171 ⇔ 180	Custom 2
	181 ⇔ 190	Custom 3
	191 ⇔ 200	Custom 4
	201 ⇔ 210	Custom 5
	211 ⇔ 220	Custom 6
	221 ⇔ 230	Custom 7
	231 ⇔ 240	Custom 8
	241 ⇔ 250	Custom 9
	251 ⇔ 255	Custom 10
8		AUTO SPEED ADJUSTMENT
	0 ⇔ 255	When using CH7,AUTO01-AUTO10, this function activated
9		ID ADDRESS
	0 ⇔ 9	ID1~ID66
	10 ⇔ 19	ID1
	20 ⇔ 29	ID2
	30 ⇔ 39	ID3
	40 ⇔ 49	ID4
	50 ⇔ 59	ID5
	60 ⇔ 69	ID6
	70 ⇔ 79	ID7
	80 ⇔ 89	ID8
	90 ⇔ 99	ID9
	100 ⇔ 109	ID10
	110 ⇔ 119	ID11
	120 ⇔ 129	ID12
	130 ⇔ 139	ID13
	140 ⇔ 149	ID14
	150 ⇔ 159	ID15
	160 ⇔ 169	ID16
	170 ⇔ 179	ID17
	180 ⇔ 189	ID18

CHANNEL	VALUE	FUNCTION
9	190 ↔ 199	ID19
	200 ↔ 209	ID20
	210	ID21
	211	ID22
	212	ID23
	213	ID24
	214	ID25
	215	ID26
	216	ID27
	217	ID28
	218	ID29
	219	ID30
	220	ID31
	221	ID32
	222	ID33
	223	ID34
	224	ID35
	225	ID36
	226	ID37
	227	ID38
	228	ID39
	229	ID40
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	233	ID44
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	238	ID49
	239	ID50
	240	ID51
	241	ID52
	242	ID53
	243	ID54
	244	ID55
	245	ID56
	246	ID57
	247	ID58
	248	ID59
	249	ID60
	250	ID61
	251	ID62
	252	ID63
	253	ID64
	254	ID65
	255	ID66

CHANNEL	VALUE	FUNCTION
10	0 ⇔ 9	BLOCK BLOCK1, BLOCK2, BLOCK3, BLOCK4
	10 ⇔ 29	BLOCK1
	30 ⇔ 49	BLOCK2
	50 ⇔ 69	BLOCK3
	70 ⇔ 89	BLOCK4
	90 ⇔ 109	BLOCK1, BLOCK2
	110 ⇔ 129	BLOCK3, BLOCK4
	130 ⇔ 149	BLOCK1, BLOCK4
	150 ⇔ 169	BLOCK2, BLOCK3
	170 ⇔ 189	BLOCK1, BLOCK2, BLOCK3
	190 ⇔ 209	BLOCK2, BLOCK3, BLOCK4
	210 ⇔ 229	BLOCK1, BLOCK3, BLOCK4
	230 ⇔ 255	BLOCK1, BLOCK2, BLOCK4

BLOCK

CHANNEL	VALUE	FUNCTION
1	0 ⇔ 255	BLOCK1-RED
2	0 ⇔ 255	BLOCK1-GREEN
3	0 ⇔ 255	BLOCK1-BLUE
4	0 ⇔ 255	BLOCK2-RED
5	0 ⇔ 255	BLOCK2-GREEN
6	0 ⇔ 255	BLOCK2-BLUE
7	0 ⇔ 255	BLOCK3-RED
8	0 ⇔ 255	BLOCK3-GREEN
9	0 ⇔ 255	BLOCK3-BLUE
10	0 ⇔ 255	BLOCK4-RED
11	0 ⇔ 255	BLOCK4-GREEN
12	0 ⇔ 255	BLOCK4-BLUE

ARC 1

CHANNEL	VALUE	FUNCTION
1	0 ⇔ 255	RED
2	0 ⇔ 255	GREEN
3	0 ⇔ 255	BLUE

ARC 1+D

CHANNEL	VALUE	FUNCTION
1	0 ⇔ 255	MASTER DIMMER
2	0 ⇔ 255	RED
3	0 ⇔ 255	GREEN
4	0 ⇔ 255	BLUE

4.3 BASIC INSTRUCTIONS FOR DMX512 OPERATION (STAGE 1)

MASTER DIMMER

- CH1 controls the intensity of the currently projected color
- When the slider is at the highest position (255) the intensity of the output is the maximum

RED, GREEN & BLUE COLOR SELECTION

- CH2, CH3 & CH4 control the intensity ratio of each of the RED, GREEN & BLUE LEDs.
- When the slider is at the highest position (255) the intensity of the color is the maximum.
- CH2, CH3 & CH4 can be combined together to create over 16 million colors.

COLOR MACROS

- CH5 selects the required COLOR MACRO
- CH5 has priority over CH2, CH3 and CH4
- CH1 is used to control the intensity of the COLOR MACRO

STROBE

- CH6 controls the strobe of CH1 to CH5

ID ADDRESS SELECTION

- CH9 is used to select the target ID address.
- Each independent DMX address may have up to 66 independent ID addresses.
- An ID address of 0 will activate all ID address locations.

AUTO

- CH7 selects the Fan Function, the preset AUTO programs Auto 01-10 or the custom programs Custom 01-10
- CH7 has priority over CH2, 3, 4, 5.
- CH8 control speed of CH7.

BLOCK

- This fixture is divided as 4 blocks, each block includes 2 red LEDs, 2 green LEDs, 2 blue LEDs.

Connection Drawing

